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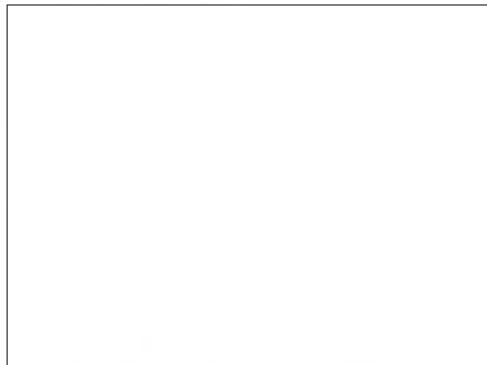
CONFIDENTIAL

13 September 1955

INFORMATION FOR THE RECORD

SUBJECT: Table Showing Status of Hole-Drilling Projects as of 7 September 1955

1. The Third Monthly Meeting of the Hole-Drilling Committee was held on 7 September 1955. Those present were:



25X1

2. The table below shows the status of the project at the present time.

MP Division

25X1

SubjectStatusRemarks

25X1

Hole-drilling. Proposal was all-inclusive and not specific.

will submit another proposal.

discussed
proposal with
of in greater detail
as to the need of the pro-
ject.

25X1

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National Bureau of Standards

Wall-thickness Measurement
Gauge. Feasibility of Ultra-
sonic measurement and type of
equipment which might be used.

Proposal accepted and work
now in progress. Final re-
sults expected in 3-4 months.

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Chemical Division

DOC	13	REV DATE	22 JULY 80	BY	457447
ORIG COMP	056	OPI	56	TYPE	03
ORIG CLASS	5	PAGES	9	REV CLASS	C
JUST	22	NEXT REV	2010	AUTHI	HR 70-2

25X1

Chemical decomposition of
concrete and mortar

Awaiting security approval. This company does contract
research work on cement
and concrete chemistry.

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25X1

Subject

Chemical decomposition of
concrete and mortar.

Status

Awaiting security approval.

Report

These companies do contract
research work on cement and
concrete chemistry.

Wall-thickness measurement

Feasibility study and eval.
activities now underway.

Use back-scattering of
neutrons.

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Engineering Division

25X1

Proposal covers:

- a. Survey of batteries to be used to run motors.
- b. Survey of d.c. motors to determine feasibility of battery-operated, quiet, drills.
- c. Preliminary necessary drilling tests with available equipment.
- d. Report of results and conclusions - \$6360 - 4 mos.

Proposal will be dropped.

There are several other methods of obtaining alternating current as well as usual methods of obtaining power. (See [redacted] Proposal.)

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[redacted]

Proposal covers a general study of the present state of the art and consideration of new methods of wall penetration. Despects work on:

- a. Supersonic drilling.
- b. Jet of abrasive particle in liquid or air.
- c. Rubber bit impregnated with diamonds - \$9750 - 6 mos.

Proposal will be re-submitted. Emphasis will be upon mechanics of cutting, such as angle of cutting bit; also high velocity jets.

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Engineering Division (Contd)

(Contd)

25X1

<u>Subject</u>	<u>Status</u>	<u>Remarks</u>
Proposal covers a first phase for: a. Survey of commercial equip- ment. b. Tests of bargained commercial equipment to determine what could be used and what should be developed for our purposes. c. Reports of results and recom- mendations - \$6500 - 4 mo.	Will accept as is. Proposal being processed.	

The proposal covers the con-
struction of a testing facil-
ity to consist of a building
(10' x 20') with heat and power.
Test walls would be constructed
inside in order to simulate
drilling in a room. Sound level
measuring equipment and 20 weeks
of testing are included -
\$11,000 - 1 year.

Meeting has been arranged
whereby KB will brief []
in detail as to requirements.

25X1

Pipe Pusher Program

It has been decided to accept
this proposal as it stands.
It has the informal approval
of ASD. Present program is
being expanded.

The new program will
include testing of drills,
determination of the
horsepower and load
requirements for pro-
truding various materials.

[] has already demon-
strated that by using a hollow
5/16" hollow air-cooled
drill they can penetrate
30' of concrete in 2 min-
utes. Roger Donney can
furnish details on this
test.

25X1

Silent alternating current
drives and manual drives.

Holding proposal for addi-
tional personnel clearance
before submitting it to an.

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25X1

SubjectStatusReported

General Proposal

Proposal has been mailed
to us.

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Explosive projectile such
as used by carpenters to
 nail lumber to concrete.

Still awaiting proposal.

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25X1

General proposal.

Nothing new to report.

TSL Division

Softening of concrete.

Feasibility tests and
studies.TSL will test theory
that concrete can be
softened by subjecting it
to sudden extremes of
temperature.

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25X1

TSL/Chemical Division

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